ABSTRACT

A pluggable bi-directional transceiver with a single optical fiber comprises a sub-assembly module, a circuit board, a main frame, an upper cover, a lower cover, a tab-base and a tab, connected to a communication equipment. The sub-assembly module connected to a single optical fiber includes a WDM, which reflects or transmits a specific wavelength optical signal adapted to function in receiving and transmitting optical signal. The circuit board exchanges the signal of the sub-assembly module with the communication equipment. The main frame and the upper and lower covers are used to fix and protect elements. The tab and tab-base are used to fix the transceiver on the equipment or remove from it. The specifications of the transceiver follow the small form-factor pluggable transceiver multi-source agreement.